PARCA EVM Update

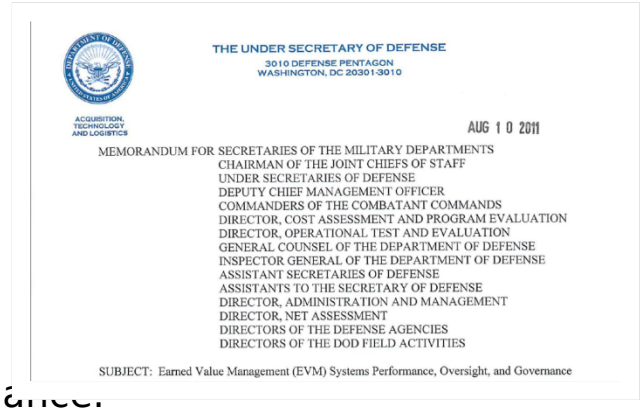
Presenter:
Phone:
Email:

PARCA EVM Vision

- Earned Value Management (EVM) is a management tool that is fully embraced by the DoD acquisition community.
- Guiding Principles:
  - Increase the quality and utility of EVM data.
  - Increase the use of EVM across the acquisition chain.
  - Acquisition professionals have the necessary knowledge & skills to utilize EVM in their professions.
  - Reduce the administrative and economic burden of inefficient implementation of Earned Value Management Systems (EVMS).
  - Ensure constructive communication amongst the acquisition community to include industry and Government.

EVM Authorities Memo – 10 Aug 2011

- Policy
  - Develop, publish, and maintain DoD policy and guidance on EVM.
  - Issue Resolution including represent the Department in resolving differences with other Federal agencies.
  - Communicate with industry on EVM policy.



THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION, TECHNOLOGY AND LOGISTICS

AUG 10 2011

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
DEPUTY CHIEF MANAGEMENT OFFICER
COMMANDERS OF THE COMBATANT COMMANDS
DIRECTOR, COST ASSESSMENT AND PROGRAM EVALUATION
DIRECTOR, OPERATIONAL TEST AND EVALUATION
GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE
INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE
ASSISTANT SECRETARIES OF DEFENSE
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR, ADMINISTRATION AND MANAGEMENT
DIRECTOR, NET ASSESSMENT
DIRECTORS OF THE DEFENSE AGENCIES
DIRECTORS OF THE DOD FIELD ACTIVITIES

SUBJECT: Earned Value Management (EVM) Systems Performance, Oversight, and Governance

- Central Repository
  - Maintain Earned Value Central Repository (CR) for the Department.
  - CR data alignment with the AV framework.
  - EVM Plan / RFP Review.
  - Report to AT&L on EVM data quality & compliance.

- Competency
  - Serve as EVM Functional Lead.
  - Support other OSD Defense Acquisition Workforce Improvement Act Functional Leads with EVM expertise to influence the competency requirements for Earned Value within their respective functional areas.
  - Coordinate with DAU to execute the responsibilities outlined in DoDI 5000.66.

Integrated Cost and Schedule Reporting

- New DID to integrate IMS and CPR DIDs
  - Integrated Program Management Report (IPMR)
  - Same DID number as prior CPR
- Benefits of IPMR approach
  - Consistent with the intent of the overall EVM integrated approach
  - Provides emphasis for integrated schedule and cost analysis on the status of program
  - Facilitates integration of schedule and cost for variance analysis and to forecast future performance

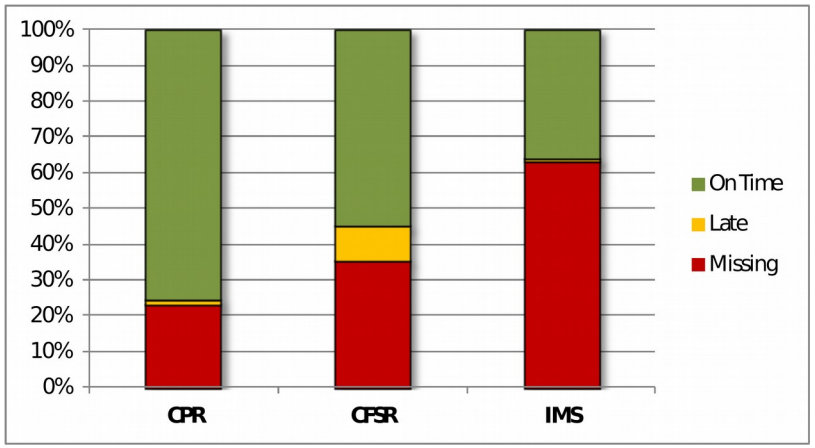
Balance cost effectiveness with government usability

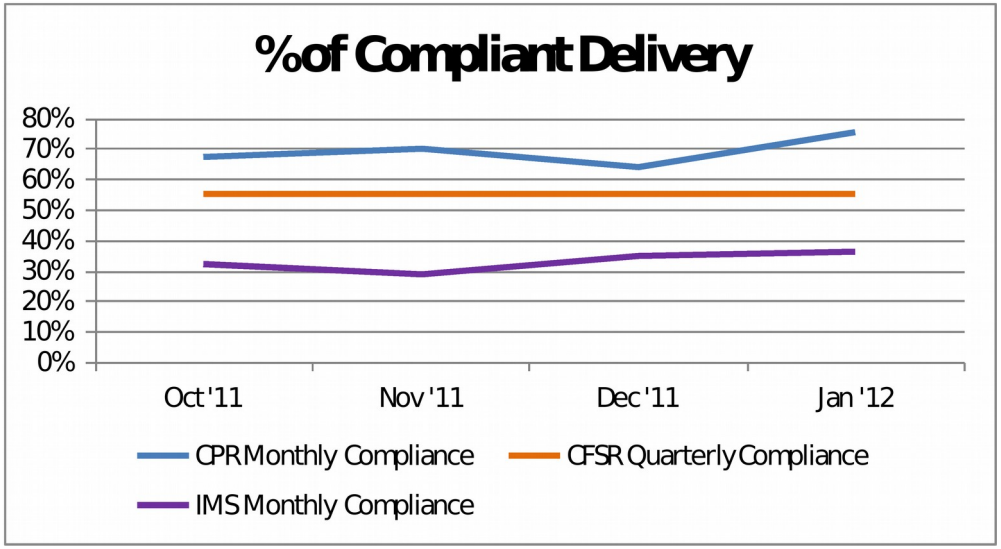
Central Repository

- CR Purpose
  - The purpose of the CR is to establish a source of authoritative Earned Value data and to provide timely access to OSD, the Services, and the DoD Components.

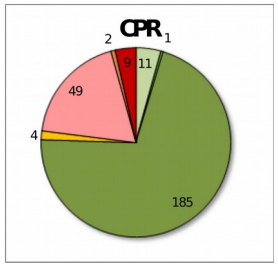
- CR Initiatives:
  - Establish more comprehensive data validation.
    - PARCA has developed a prototype Dashboard view to monitor data quality and is working with data owners on areas which need improvement.
  - EVM reporting compliance reviews.
  - CR data rendering for analyst use.

Detail Status for Feb 2012 Deliverables

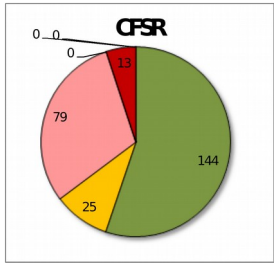




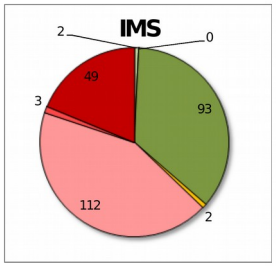
	CPR	CFSR	IMS
On Time	197	144	95
Late	4	25	2
Missing	60	92	164
	261	261	261



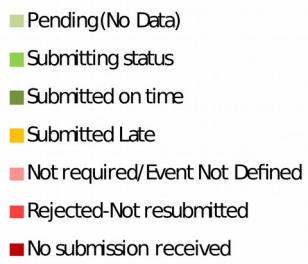
Monthly



Quarterly



Monthly

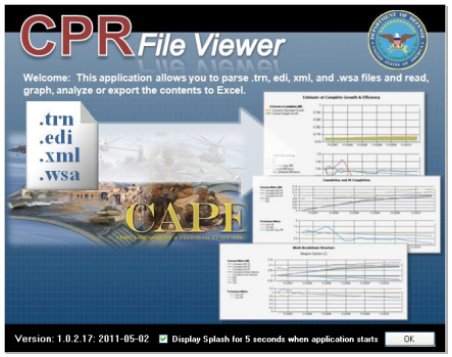


EVM System Compliance

- Approved - ###
- Review in last 12 months by DCMA - ###
- CAR count – ### Systems with level 3 CARs

EVM CR – Data Rendering

- EVM CR Data Handling Functions
  1. EVM-CR (Web): EVM Central Repository supporting submission, review, archive (DoD only), and reporting compliance functions
  2. Visual Display (Web): Data extraction, reporting, charting, analysis and quality assessment tool
  3. CPR File Viewer (Desktop): CPR (XML) data viewer, reporting, and charting


CPR File Viewer
Welcome: This application allows you to parse .trn, .edi, xml, and .wsa files and read, graph, analyze or export the contents to Excel.
.trn
.edi
.xml
.wsa
CAPE
Version: 1.0.2.17: 2011-05-02
Display Splash for 5 seconds when application starts
OK

EVM CR – Visual Displays

- Data file validation viewer & metric dashboard

On-the-fly data validation checks and performance tripwires

Contract Task Summary View | Browse | EVM Validity Checks | Export | Chart | Settings

5/23/2010

EVM validity check summary

	Validity check	Count
	ACWPWayAboveOrBelowPlannedValue	61

Choices:

ACWP % greater than planned value threshold: 25

Change % threshold on greater than comparisons: 5

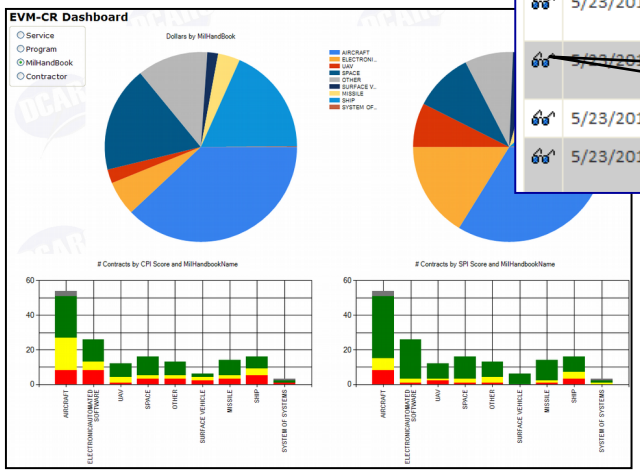
ReCheck | Default

	Report Date	Element ID	Level	Element Name	Validity Check
	5/23/2010	1	1	Weapon System	Cumulative ACWP (116470139) is 37.99% above Cumulative BCWP (84401911).
	5/23/2010	11	2	All Up Ons (AUO) Space Vehicle	
	5/23/2010	1110XA1CI	5	Interconnect Design NRE	
	5/23/2010	112	3	Guidance Electronics Unit (ZZZ)	

Cumulative ACWP (84004730) is 46.40% above Cumulative BCWP (57381444).

Report Date	Element Name	Element ID	Reporting Level	
5/23/2010	All Up Ons (AUO) Space Vehicle	11	2	
Cum CPI	**Cum SPI**	**Cum ACWP**	**Cum BCWP**	**Cum BCWS**
0.68	0.95	84,004,730	57,381,444	60,652,324
Cum SV	**Cum CV**	**BAC**	**EAC**	**VAC**
-3,270,880	-26,623,286	61,134,818	89,512,232	28,377,414

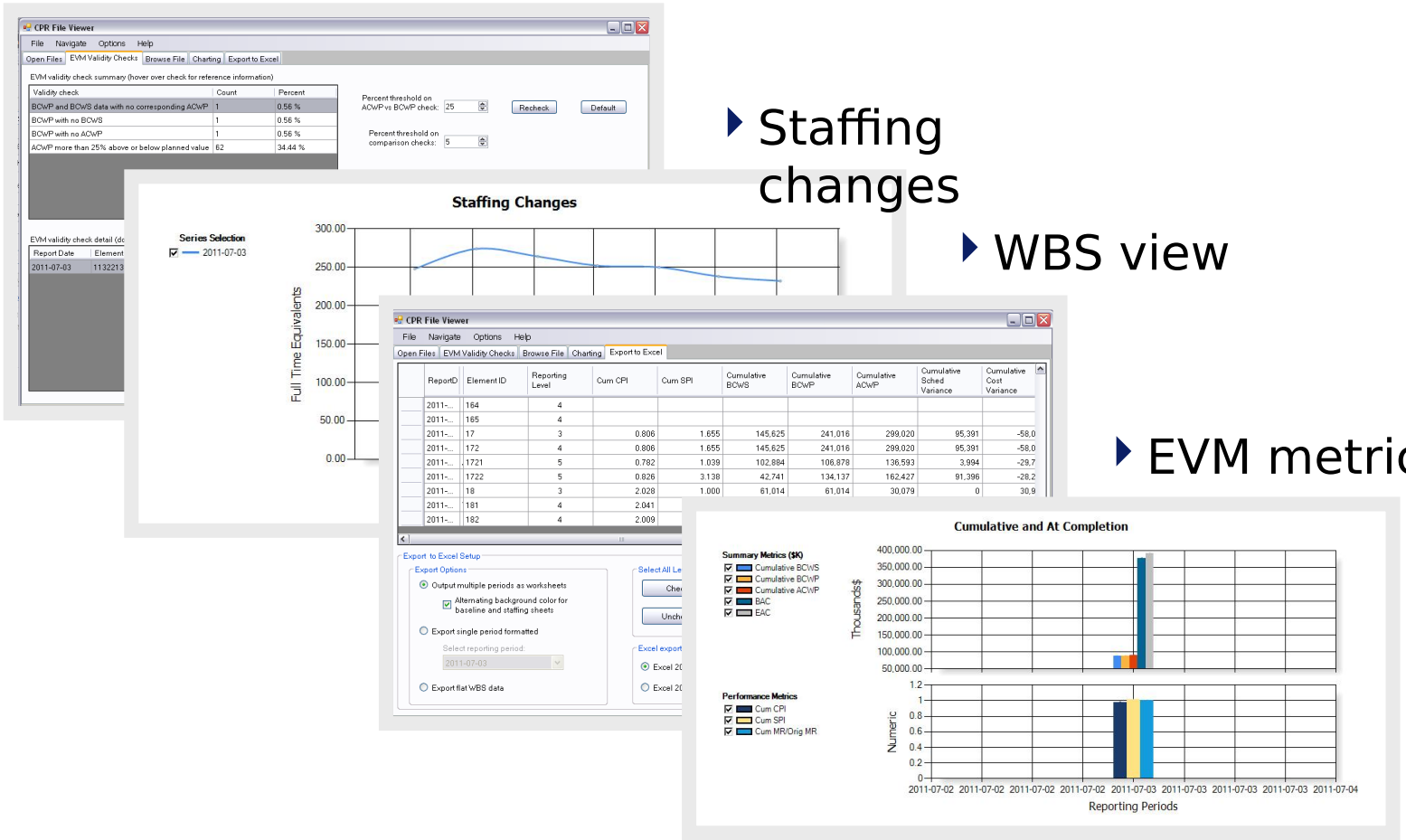
EVM-CR Dashboard



Notional data only

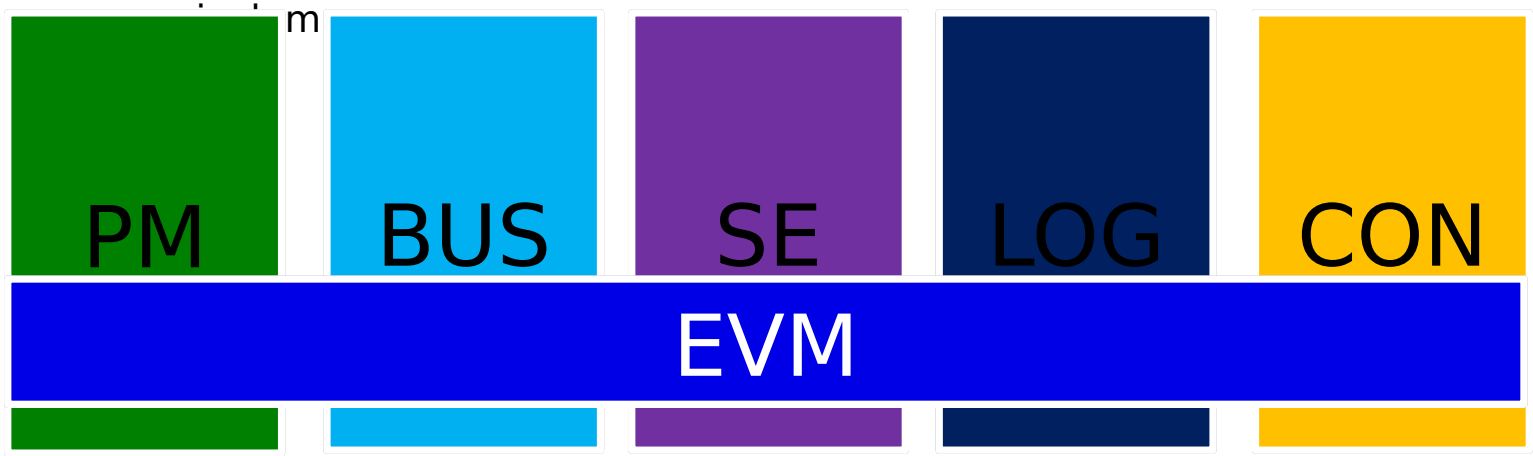
CPR File Viewer Screenshots

- Error checks
- Staffing changes
- WBS view
- EVM metrics



EVM Competency Approach

- PARCA has documented a baseline set of EVM competencies which DAU and others will use to provide training and experience against.
- PARCA has just completed a curriculum review of DAU courses which teach EVM content to help assess if curriculum fully addresses DoD EVM competencies and DoD EVM policy.
- EVM is not its own career field and does not unilaterally drive changes to curriculum or training requirements.
  - All recommendations from the course reviews will be presented to the appropriate Functional Area FIPT in order to impact any changes in m



Baseline EVM Competency Model

Index	Category	Summary	Competency	Career Field: Career	Career Field: Y/N	Functional Role	EVM Task
3.b	Analysis & Management Reports	SPI & CPI	Understands, develops, and analyzes Cost Variance (CV), Schedule Variance (SV), Cost Performance Index (CPI), Schedule Performance Index (SPI) and percent complete.	PM	Y	Use EVM analysis for SA, to find issues, status resolution and understand risk.	Identify program cost drivers, analyzes variance causes and conduct root cause and impact assessments. Derive corrective action plans.
				BFM	Y	Conduct EVM analysis and report risk areas. Ensure program forecast is consistent with EV trends and status.	Identify program cost drivers, analyzes variance causes and conduct root cause and impact assessments. Derive corrective action plans.
				Tech	Y	Utilize Variance Analysis to target troubled areas and conduct Root Cause Analysis to understand impacts to cost and schedule.	Identify program cost drivers, analyzes variance causes and conduct root cause and impact assessments. Derive corrective action plans.
				CON	N		

- Baseline Competency Model developed with a role based approach tailored to DAWIA career fields.
  - Competencies are organized into categories derived from the 32 Guidelines then assigned to DAWIA career fields; each competency is then mapped to a functional role within a field and basic EVM tasks which support the role.